INTERNATIONAL SEARCH REPORT

In tional Application No FU1/IB2004/052463

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11820/22 G118 G11B20/14 G11B7/007 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 G11B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. EP 0 802 527 A (MATSUSHITA ELECTRIC X 1-6,11, INDUSTRIAL CO., LTD) 19,22, 22 October 1997 (1997-10-22) 24-26 column 1, lines 38-53 column 3, line 10 - column 5, line 15 figures 1-5 US 6 034 937 A (KUMAGAI ET AL) X 24-26 7 March 2000 (2000-03-07) column 1, lines 24-38 column 4, lines 5-9 column 5, lines 7-13 column 5, lines 33-41 figures 3.5.7 -/---Further documents are listed in the continuation of box C. Patent family members are listed in annex. X . Special categories of cited documents : *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance Invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the International search report Date of the actual completion of the international search 28, 07, 2005 7 March 2005 Name and mailing address of the ISA **Authorized officer** European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016 Hermes, L

INTERNATIONAL SEARCH REPORT

In tional Application No PCI/IB2004/052463

2		PC1/1B2004/052463		
C.(Continu Category °	citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Calogoly .	Section, with indication, where appropriate, of the relevant passages	nelevant to Claim No.		
A	SCHOUHAMER IMMINK K A: "EFMPLUS: THE CODING FORMAT OF THE MULTIMEDIA COMPACT DISC" IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol. 41, no. 3, 1 August 1995 (1995–08–01), pages 491–497, XP000539497 ISSN: 0098–3063 abstract page 494, column 2, lines 33–36 figures 1,4	1,4,6,19,22		

mational application No. PCT/IB2004/052463

INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)							
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:								
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:							
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:							
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).							
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)								
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:							
	see additional sheet							
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.							
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.							
з	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:							
4. χ	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: $1-8,11,19,22,24-26$							
Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.							

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8, 11, 19, 22, 24-26

apparatuses (claims 1-8) and method (claim 19) for generating data which, when being reproduced from the burst cutting area (BCA) of an optical disk, exhibits a frequency spectrum that minimally interferes with the low frequency component of markings also recorded in said burst cutting area; apparatus for manufacturing such disk (claim 22); apparatuses (claims 24, 25) and method (claim 26) for reading such disk.

2. claims: 9, 12-18, 20

apparatuses (claims 9, 12-18) that use random data for generating data to be provided to the BCA of an optical disk; corresponding optical disk (claim 20).

3. claim: 10

apparatus for generating data to be provided to the BCA of an optical disk, said apparatus using a 17 PP channel encoder.

4. claim: 21

optical disk wherein data in the BCA is divided into frames that have the same frame structure as user data outside the BCA.

5. claim: 23

apparatus for manufacturing an optical disk which has grooves in its BCA.

INTERNATIONAL SEARCH REPORT

information on patent family members

In tional Application No Ful/IB2004/052463

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0802527	A	22-10-1997	DE	69614823 D1	04-10-2001
LI GOOLSE!	Α	LL 10 1757	DE	69614823 T2	11-04-2002
			EP	0802527 A1	22-10-1997
			ūs	2002073038 A1	13-06-2002
			US	6081785 A	27-06-2000
			CN	1379394 A	13-11-2002
			CN	1492402 A	28-04-2004
			CN	1492403 A	28-04-2004
			CN	1474396 A	11-02-2004
			CN	1474385 A	11-02-2004
			CN	1138915 A ,C	25-12-1996
			CN	1166223 A ,C	26-11-1997
			CN	1173942 A ,C	18-02-1998
			CN	1547200 A	17-11-2004
			CN	1547201 A	17-11-2004
			CN	1545088 A	10-11-2004
			CN	1547202 A	17-11-2004
			DE	69523139 D1	15-11-2001
			DE	69523139 T2	31-01-2002
			DE	69533972 D1	03-03-2005
			DE	69533972 T2	30-06-2005
			DE	69610859 D1	07-12-2000
			DE	69610859 T2	15-03-2001
			DE	69610860 D1	07-12-2000
			DE	69610860 T2	15-03-2001
			DE	69610861 D1	07-12-2000
			DE	69610861 T2	15-03-2001
			DE	69611906 D1	05-04-2001
			DE	69611906 T2	21-06-2001
			DE	69613010 D1	28-06-2001
			DE	69613010 T2	15-11-2001
			DE	69613011 D1	28-06-2001
			DE	69613011 T2	15-11-2001
			DE	69613156 D1	05-07-2001
			DE	69613156 T2	25-10-2001
			DE	69614580 D1	20-09-2001
			DE	69614580 T2	11-04-2002
			DE	69615418 D1	25-10-2001
			DE	69615418 T2	06-06-2002
			DE	69617478 D1	10-01-2002
			DE	69617478 T2	08-05-2002
			DE	69618633 D1	21-02-2002
			DE	69618633 T2	08-05-2002
			DE	69618672 D1	28-02-2002
			DE	69618672 T2	14-08-2002
			DE	69620919 D1	29-05-2002
			DE	69620919 T2	07-11-2002
			DE	69621053 D1	06-06-2002
			DE	69621053 T2	31-10-2002
			DE	69621357 D1	27-06-2002
US 6034937	Α	07-03-2000	JP	10198965 A	31-07-1998